



OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/047,542

DATE: 06/06/2002
TIME: 10:42:30

Input Set : A:\03090504.app
Output Set: N:\CRF3\06062002\J047542.raw

P.6

3 <110> APPLICANT: LARRICK, JAMES W.
4 WYCOFF, KEITH L.
6 <120> TITLE OF INVENTION: NOVEL IMMUNOADESINS FOR TREATING AND PREVENTING VIRAL
7 AND BACTERIAL DISEASES
9 <130> FILE REFERENCE: 030905.0004.CIP1
11 <140> CURRENT APPLICATION NUMBER: US 10/047,542
12 <141> CURRENT FILING DATE: 2001-10-26
14 <150> PRIOR APPLICATION NUMBER: PCT/US01/13932
15 <151> PRIOR FILING DATE: 2001-04-28
17 <150> PRIOR APPLICATION NUMBER: 60/200,298
18 <151> PRIOR FILING DATE: 2000-04-28
20 <160> NUMBER OF SEQ ID NOS: 101
22 <170> SOFTWARE: PatentIn Ver. 2.1.
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 1596
26 <212> TYPE: DNA
27 <213> ORGANISM: Homo sapiens
29 <400> SEQUENCE: 1
30 atggctccca gcagcccccgc gcccgcgtg cccgcactcc tggctctgt cggggctctg 60
31 ttccggacatcg ctggcaatgc ccagacatct gtgtcccccct caaaagtcat cctgccccgg 120
32 ggagggtctcg tgctgtgtgc atgcgcaccc tccctgtggc acggccaaatgt gttggggcata 180
33 gagaccggctg tgccctaaaaaa ggatgtgtc tgcgtctggg acaaccggaa ggtgtatgaa 240
34 ctgagcaatg tgaagaaga tagccaacca atgtgtctatt ccaaactgcccc tgatgggcag 300
35 tcaacagacta aaaccccttc caccgtgtac tggtggccatc aacgggtggc actggcacc 360
36 ctccccccttgc ggcacggatc cttaccatccgt gtcggccatgt ggagggtggg 420
37 gcaccccccggg ccaacccatc cgtgtgtctg ctccgtgggg aagaaggagct gaaacggggag 480
38 ccagctgtgg tgaggccggc accacgggtgc tgggtgggg agatcaccat 540
39 ggaggccaaat ttcgtgtccg cactgtactg gacccgtggc cccaaaggctg gtagctgtt 600
40 gagaacacccat cggcccccata ccaagctccg acctttgttc tgccagcgcac tccccccacaa 660
41 ctgtgtccgc cccgggtctc aaggggtggc acggcaggggg cctgtgtctg ttccctggac 720
42 gggtgttcc cagtctcgaa ggccacggtc caccctggcact tggggggacca gaggttgaac 780
43 cccacagact cctatggcaatcg cgtactccctc tggggccaaagg cctcgtgtcgt tggacccgca 840
44 gaggacgggg gcacccacggc cgtgtacgtgt gcaactaatacc tggggggacca gagccaggag 900
45 acactgtcaga cagtgtccat ctacagcttt cccggccca acgtgttctt gaccaaggcc 960
46 gagggttcag aaggggacggc ggtgtacgtg aagtgtgggg occacccttag agcccaagggtg 1020
47 acgtgttaatg gggttccggc ccaaggactg gggccggggg cccagctctt gctgtggc 1080
48 accccaggagg acaacccggcg cagtttccctc tgctgtccaa ccctggggat ggccggccag 1140
49 cttagatcaca agaaccaggac ccggggatgt cgtgtccctgt atggcccccgg actggacggag 1200
50 agggatgtc cggggaaactg gacccgtggca aaaaattcccg acggactccaa atgtgtcccg 1260
51 gcttggggggg accccatggc ccaaggatcg aatgtgtccaaatggcactt ccccaactggcc 1320
52 atccggggaaat cagtgtgtgt cactcgatgt ctggggca cccatctgtg tggggccagg 1380
53 agcactcaag gggagggtcactcccaagggtg acggcgtaaatg tgctctcccc cccgtatgag 1440
54 atgtgtcatca tcactgtggt acggcggca gtcataatgg gcactgcagg cccatccggc 1500

ENTERED

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/047,542

DATE: 06/06/2002
TIME: 10:42:30

Input Set : A:\03090504.app
Output Set: N:\CRF3\06062002\J047542.raw

55 tacctctata accggcagcg gaagatcaag aaatacagac tacaacaggc ccaaaaaggg 1560
 56 acccccatgaa accgaacac acaagccacg cctccc 1596
 59 <210> SEQ ID NO: 2
 60 <211> LENGTH: 532
 61 <212> TYPE: PRT
 62 <213> ORGANISM: Homo sapiens
 64 <400> SEQUENCE: 2
 65 Met Ala Pro Ser Ser Pro Arg Pro Ala Leu Pro Ala Leu Leu Val Leu
 66 1 5 10 15
 68 Leu Gly Ala Leu Phe Pro Gly Pro Gly Asn Ala Gln Thr Ser Val Ser
 69 20 25 30
 71 Pro Ser Lys Val Ile Leu Pro Arg Gly Gly Ser Val Leu Val Thr Cys
 72 35 40 45
 74 Ser Thr Ser Cys Asp Gln Pro Lys Leu Leu Gly Ile Glu Thr Pro Leu
 75 50 55 60
 77 Pro Lys Lys Glu Leu Leu Pro Gly Asn Asn Arg Lys Val Tyr Glu
 78 65 70 75 80
 80 Leu Ser Asn Val Gln Glu Asp Ser Gln Pro Met Cys Tyr Ser Asn Cys
 81 85 90 95
 83 Pro Asp Gly Glu Ser Thr Ala Lys Thr Phe Leu Thr Val Tyr Trp Thr
 84 100 105 110
 86 Pro Glu Arg Val Glu Leu Ala Pro Leu Pro Ser Trp Gln Pro Val Gly
 87 115 120 125
 89 Lys Asn Leu Thr Leu Arg Cys Gln Val Glu Gly Ala Pro Arg Ala
 90 130 135 140
 92 Asn Leu Thr Val Val Leu Leu Arg Gly Glu Lys Glu Leu Lys Arg Glu
 93 145 150 155 160
 95 Pro Ala Val Gly Glu Pro Ala Glu Val Thr Thr Val Leu Val Arg
 96 165 170 175
 98 Arg Asp His His Gly Ala Asn Phe Ser Cys Arg Thr Glu Leu Asp Leu
 99 180 185 190
 101 Arg Pro Gln Gly Leu Glu Leu Phe Glu Asn Thr Ser Ala Pro Tyr Gln
 102 195 200 205
 104 Leu Gln Thr Phe Val Leu Pro Ala Thr Pro Pro Gln Leu Val Ser Pro
 105 210 215 220
 107 Arg Val Leu Glu Val Asp Thr Gln Gly Thr Val Val Cys Ser Leu Asp
 108 225 230 235 240
 110 Gly Leu Phe Pro Val Ser Glu Ala Gln Val His Leu Ala Leu Gly Asp
 111 245 250 255
 113 Gln Arg Leu Asn Pro Thr Val Thr Tyr Gly Asn Asp Ser Phe Ser Ala
 114 260 265 270
 116 Lys Ala Ser Val Ser Val Thr Ala Glu Asp Glu Gly Thr Gln Arg Leu
 117 275 280 285
 119 Thr Cys Ala Val Ile Leu Gly Asn Gln Ser Gln Glu Thr Leu Gln Thr
 120 290 295 300
 122 Val Thr Ile Tyr Ser Phe Pro Ala Pro Asn Val Ile Leu Thr Lys Pro
 123 305 310 315 320
 125 Glu Val Ser Glu Gly Thr Glu Val Thr Val Lys Cys Glu Ala His Pro
 126 325 330 335

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/047,542

DATE: 06/06/2002
TIME: 10:42:30

Input Set : A:\03090504.app
Output Set: N:\CRF3\06062002\J047542.raw

128 Arg Ala Lys Val Thr Leu Asn Gly Val Pro Ala Gln Pro Leu Gly Pro
129 340 345 350
131 Arg Ala Gln Leu Leu Leu Lys Ala Thr Pro Glu Asp Asn Gly Arg Ser
132 355 360 365
134 Phe Ser Cys Ser Ala Thr Leu Glu Val Ala Gly Gln Leu Ile His Lys
135 370 375 380
137 Asn Gln Thr Arg Glu Leu Arg Val Leu Tyr Gly Pro Arg Leu Asp Glu
138 385 390 395 400
140 Arg Asp Cys Pro Gly Asn Trp Thr Trp Pro Glu Asn Ser Gln Gln Thr
141 405 410 415
143 Pro Met Cys Gln Ala Trp Gly Asn Pro Leu Pro Glu Leu Lys Cys Leu
144 420 425 430
146 Lys Asp Gly Thr Phe Pro Leu Pro Ile Gly Glu Ser Val Thr Val Thr
147 435 440 445
149 Arg Asp Leu Glu Gly Thr Tyr Leu Cys Arg Ala Arg Ser Thr Gln Gly
150 450 455 460
152 Glu Val Thr Arg Lys Val Thr Val Asn Val Leu Ser Pro Arg Tyr Glu
153 465 470 475 480
155 Ile Val Ile Ile Thr Val Val Ala Ala Val Ile Met Gly Thr Ala
156 485 490 495
158 Gly Leu Ser Thr Tyr Leu Tyr Asn Arg Gln Arg Lys Ile Lys Lys Tyr
159 500 505 510
161 Arg Leu Gln Gln Ala Gln Lys Gly Thr Pro Met Lys Pro Asn Thr Gln
162 515 520 525
164 Ala Thr Pro Pro
165 530
168 <210> SEQ ID NO: 3
169 <211> LENGTH: 3003
170 <212> TYPE: DNA
171 <213> ORGANISM: Homo sapiens
173 <400> SEQUENCE: 3
174 gctataagga tcacgcgcgc cagtcgcgc tgagtcctc tgctactcg agttgcaacc 60
175 tcagcctcgc tatggctccc agacggcccc ggccgcgcgt gcccgcactc ctggctctgc 120
176 tcggggctct gtcccccagg ctggcaatg cccagacatc tggcccccc tcaaaaatgc 180
177 tcctgcggcc cggaggctcc gtggctgtga catgcgcac ccctctgtgc cagcccaagt 240
178 tggggatcatc agagaccccg ttgcctaaaa aggaggctgt cttgcctggg aacaacccgga 300
179 aggtgtatga actgagcaat gtgcagaagat atgcacacc aatgtgtat tcaaaactgc 360
180 ctgatggcgc gtcaacacgtt aaaaaccttc tcaaccgtgtca ctggacttcca gaaagggttg 420
181 aactggcacc cttccccctct tggcgcgcag tggccaaaga ctttaccctca ctgtcccgag 480
182 tggagggttg ggccaccccg gccaacctca cctgtgtgtc gtccctgtgg gagaaggagc 540
183 tgaaacccgg gccaacctgtc ggggagcccg ctggagggtcact gaccacgggt ctggtgaggaa 600
184 gagatcaccc tggaggccat ttctgtgtgc gcaactgtact ggacccgtggg cccaaaggcc 660
185 tggagctgtt tgagaacaccat tggcccccctt accagcttca gaccctttgtc ctgcaggcga 720
186 ctccccccaca acttgtcgc ccccggtgtc tagagggtga cacgcagggg acctgtgtct 780
187 gttccctgttgc cgggtgttc ccagtctcg aggccccgtt ccacccgtca ctgggggacc 840
188 agagggtgaa ccccacacgtc acctatggca acgactctt ctccggccaag gctcagtc 900
189 tggtgaccgc agaggacgag ggcacccaggc ggctgacgtg ttcagtaata ctggggaaacc 960
190 agagccagga gacactgcag acagtgtacca ttcacagctt tccggccccc aacgtgtattc 1020
191 tgacgaagcc agagggtctca gaaggaggaccg aggtgtacgtt gacccacccta 1080

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/047,542

DATE: 06/06/2002

TIME: 10:42:30

Input Set : A:\03090504.app

Output Set: N:\CRF3\06062002\J047542.raw

192 gagccaagg gacgctgaat ggggttccag cccagccact gggcccgagg gcccagctcc 1140
 193 tgcgtgaaggc caccggccagg gacaacgggc gacgcttcgctc ctgtctcgca accctggagg 1200
 194 tgcccgccca gtttatacac aagaacccaga cccggggact tcgtgtctcg tatggcccc 1260
 195 gactggacgca gagggtttgtt cccggaaact ggacgtggcc agaaaattcc cagcagactc 1320
 196 caatgtgcga ggcttggggaa aaccatggcc cccgactca ggtgttcaag gtggactt 1380
 197 tccatccgtcc catcggggaa tcagtactg tcactcgaga tcttgaggc accttaccc 1440
 198 gtccggccagc gaggactcaaa ggggggttcc cccgcaagg gaccgtgaat gtgtctcc 1500
 199 cccggatata gattgttcatc atactgtgg tagcagccgc agtcataatg ggcaactcg 1560
 200 gcttcagcac gtatccctat aaccggccagg gaaatgttcaaa gaaaatacaga ctacaacagg 1620
 201 cccaaaaagg gaccatccatc aaaccgaagg cacaacggcc gcctccctga accttattccg 1680
 202 ggacggccgc ttttctcgcc ctctccatata ttgtggccag ttgtggccaaa ctgaacagag 1740
 203 tggaaagatc atggcatcga gctacaccta cccggccctgg gacggccggag gagaggcat 1800
 204 tgccttcgtc catgatcacac agcatttggg gccatgttac ctgcacaccc taaaacactag 1860
 205 gccacgcac tgatctgtatc tcatatgtact aagccaaagg gaaaggacaa gactaagac 1920
 206 atgttggat gatgttaaaag tcttagctga tgagaggga aagtgtgggg gagacatagc 1980
 207 cccacccatgg gggatcatcaaa ctggggatata ctggaaatctg ctgccttattt ggtatgtctcg 2040
 208 ggccccacag acttacagaaa gaaatggccccc ttccatagaca tttgttgcata cccaaacacaa 2100
 209 agggcccaac ttccatcgacg atggcagctt gggactgtct gtctactgac cccaaaccc 2160
 210 gatgatgtatc attttttttt accagctatttatttgcatttgcattttatgttgcattttatgtt 2220
 211 ggcttaatgtt acataggctt ctggccctca gggatctccca gggatgtca tattcaagg 2280
 212 cccaggatc agttgtacatc gtgttactatc gcaaggagat gcttggcaaa aagatccat 2340
 213 ggggttggaa ctttcttattt gccaacccatcg ttttccccc aaggagtgtat ttttctatcg 2400
 214 gcaaaaaagg actatatggaa ctggtaatgg ttccataggat cagatgttac ccaggatggc 2460
 215 ctatcccttc cttttcccccc aaaactgtaca cttttgttag ccacccccc accccacatca 2520
 216 attttctgcata gttttccatccatc tgactcttgc cccgtatgtc tggtatgttgc tgcccgagg 2580
 217 atatggccca gctatgttccat tttttttttt cttttttttt tttttttttt tttttttttt 2640
 218 attgcaatgc tttttttttt cttttttttt cttttttttt tttttttttt tttttttttt tttttttttt 2700
 219 ggtttttttt gttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 2760
 220 atgttggatc aacgttctccg tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 2820
 221 cttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 2880
 222 gggaccatag gttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 2940
 223 acggggtttc tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 3000
 224 gcc 3003
 227 <210> SEQ ID NO: 4
 228 <211> LENGTH: 6
 229 <212> TYPE: PRT
 230 <213> ORGANISM: Homo sapiens
 232 <400> SEQUENCE: 4
 233 Ser Glu Lys Asp Glu Leu
 234 1 5
 237 <210> SEQ ID NO: 5
 238 <211> LENGTH: 7
 239 <212> TYPE: PRT
 240 <213> ORGANISM: Homo sapiens
 242 <400> SEQUENCE: 5
 243 Arg Ser Glu Lys Asp Glu Leu
 244 1 5
 247 <210> SEQ ID NO: 6
 248 <211> LENGTH: 52

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/047,542

DATE: 06/06/2002
TIME: 10:42:30

Input Set : A:\03090504.app
Output Set: N:\CRF3\06062002\J047542.raw

249 <212> TYPE: DNA
250 <213> ORGANISM: Artificial Sequence
252 <220> FEATURE:
253 <223> OTHER INFORMATION: Description of Artificial Sequence: Cloning primer
255 <400> SEQUENCE: 6
256 tctgttccca ggaactagt tggcacagac atctgtgtcc ccctcaaaag tc 52
259 <210> SEQ ID NO: 7
260 <211> LENGTH: 38
261 <212> TYPE: DNA
262 <213> ORGANISM: Artificial Sequence
264 <220> FEATURE:
265 <223> OTHER INFORMATION: Description of Artificial Sequence: Cloning primer
267 <400> SEQUENCE: 7
268 cataccgggg actagtccaca ttacacgtca cctcgccg 38
271 <210> SEQ ID NO: 8
272 <211> LENGTH: 799
273 <212> TYPE: PRY
274 <213> ORGANISM: Homo sapiens
276 <400> SEQUENCE: 8
277 Gln Thr Ser Val Ser Pro Ser Lys Val Ile Leu Pro Arg Gly Gly Ser
278 1 5 10 15
280 Val Leu Val Thr Cys Ser Thr Ser Cys Asp Gln Pro Lys Leu Leu Gly
281 20 25 30
283 Ile Glu Thr Pro Leu Pro Lys Lys Glu Leu Leu Leu Pro Gly Asn Asn
284 35 40 45
286 Arg Lys Val Tyr Glu Leu Ser Asn Val Gln Glu Asp Ser Gln Pro Met
287 50 55 60
289 Cys Tyr Ser Asn Cys Pro Asp Gly Gln Ser Thr Ala Lys Thr Phe Leu
290 65 70 75 80
292 Thr Val Tyr Trp Thr Pro Glu Arg Val Glu Leu Ala Pro Leu Pro Ser
293 85 90 95
295 Trp Gln Pro Val Gly Lys Asn Leu Thr Leu Arg Cys Gln Val Glu Gly
296 100 105 110
298 Gly Ala Pro Arg Ala Asn Leu Thr Val Val Leu Leu Arg Gly Glu Lys
299 115 120 125
301 Glu Leu Lys Arg Glu Pro Ala Val Gly Glu Pro Ala Glu Val Thr Thr
302 130 135 140
304 Thr Val Leu Val Arg Arg Asp His His Gly Ala Asn Phe Ser Cys Arg
305 145 150 155 160
307 Thr Glu Leu Asp Leu Arg Pro Gln Gly Leu Glu Leu Phe Glu Asn Thr
308 165 170 175
310 Ser Ala Pro Tyr Gln Leu Gln Thr Phe Val Leu Pro Ala Thr Pro Pro
311 180 185 190
313 Gln Leu Val Ser Pro Arg Val Leu Glu Val Asp Thr Gln Gly Thr Val
314 195 200 205
316 Val Cys Ser Leu Asp Gly Leu Phe Pro Val Ser Glu Ala Gln Val His
317 210 215 220
319 Leu Ala Leu Gly Asp Gln Arg Leu Asn Pro Thr Val Thr Tyr Gly Asn
320 225 230 235 240

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/047,542

DATE: 06/06/2002
TIME: 10:42:31

Input Set : A:\03090504.app
Output Set: N:\CRF3\06062002\J047542.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:13; N Pos. 2150,2214,2215

Seq#:14; N Pos. 2315

Seq#:82; Xaa Pos. 12,77,78,79,80,145,146,147,155,156,157,158,159,160,161

Seq#:82; Xaa Pos. 162,163,268,269,279,282

Seq#:88; Xaa Pos. 12,77,78,79,80,81,132,145,146,147